IAC Mission Success Stories

CBIAC

CBIAC | Story 1 | Story 2

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Chemical and Biological Archival Information Management System (CBAIMS)

The Chemical and Biological Archival Information Management System (CBAIMS) is a Defense Threat Reduction Agency sponsored effort. The objective of CBAIMS is to consolidate Chemical and Biological Defense (CBD) archival information into a single database and virtual repository. This database and repository will then be available to the entire CBD community. CBAIMS will produce a range of benefits for the CBD community. It will enable the Chemical and Biological Defense Information Analysis Center (CBIAC) to provide real time support to warfighters twenty-four hours per day, seven days per week anywhere in the world. CBAIMS will also accelerate delivery of mission-critical resources throughout the CBD community. Because it will be a single virtual repository for CBD information, CBAIMS will reduce the programmatic risk associated with CBD research and development efforts. CBAIMS will reduce cost to research and development efforts by eliminating unnecessary duplication of previous efforts, while reducing the cost to maintain CBD information resources by ensuring that they are consolidated for ready access.

Continued on Story 1

Casualty Care System

The Casualty Care System (CCS), developed under a CBIAC Technical Area Task (TAT), protects both patients and health care personnel from CB contamination. The biological protective material in the CCS is laminated with the biocidal resin, Triosyn®, while the charged melt-blown filter traps aerosolized biological particulates. The chemical protection of the CCS passed the Aerosol Vapor Liquid Assessment Group (AVLAG) liquid/vapor permeation test method in Test Operating Procedure (TOP) 8-2-501. Blowers provide filtered air both to the CCS and to the patient's mask. The CCS contains glove ports, sterile interfaces for fluids and oxygen, and an equipment pass-through, and is compatible with fielded litter systems. The Army and the Joint Special Operations Command guided the CCS development effort.

Continued on Story 2

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Chemical & Biological Archival Information Management System (CBAIMS) (continued)

CBAIMS will fully define and characterize all existing CBD collections to meet the objectives of the Program. A number of the major CBD information repositories and data systems are currently being worked under this program. These include the CBIAC, the West Desert Technical Information Center at Dugway Proving Ground, the Soldier and Biological Chemical Command (SBCCOM) Technical Library and SBCCOM Historical Office collection, the U.S. Army Chemical School collection, the U.S. Air Force CBD collection at Wright Patterson, AFB, the Naval Research Laboratory, and the National Archives.

The CBAIMS program evaluates collections at each site and uses a phased implementation approach. Site visits are conducted to obtain detailed information on the number of documents in a collection, the number of documents currently cataloged, the number of documents with abstracts and keywords, duplicate documents or citations, number of classified documents, status of distribution statements, number of documents available in electronic form, and the unique site requirements for holdings.

The existing CBIAC Web-based information system is being expanded via CBAIMS. The CBIAC will maintain a central unclassified database with additional duplicate checking and document cataloging via an encrypted link over the Internet. Database and image servers containing electronic copies of the CBAIMS are planned for high volume document distribution points determined by customer needs. The first such system is being implemented at Dugway Proving Ground.

For Each Site the CBIAC establishes on-site CBIAC support as needed to analyze repository content and formats, merges bibliographic databases, provides access for uploading and downloading data, and loads or scans unique documents in prioritized order.

The CBIAC database system has been upgraded to support CBAIMS. This system currently provides community-wide access to the CBIAC databases and will host the combined database via the Internet.

The CBIAC has integrated the citations from the West Desert Technical Information Center at Dugway Proving Ground into CBAIMS, is working on transferring the Dugway image collection, and is working with holdings from the U.S. Army Chemical School and the National Archives. To date, CBAIMS has brought approximately 50,000 citations and 5,000 document images into the CBIAC, making them available to the CBD community.

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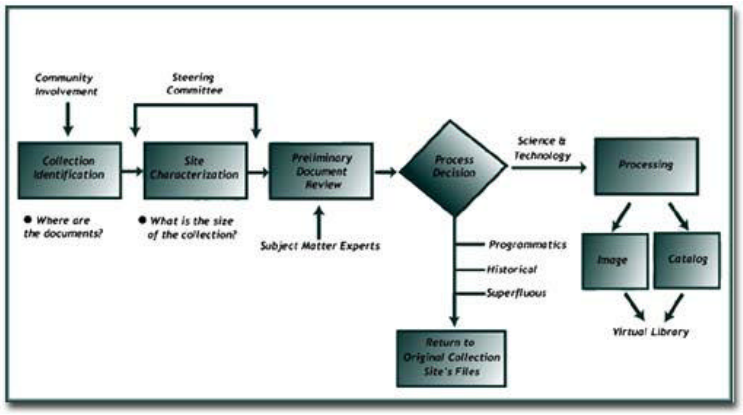

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Casualty Care System (continued)

This casualty care system allows medical personnel access to patients while protecting both the medical staff and the patients from contaminants that may transfer into or out of the system. The blowers included with the casualty care system provide filtered airflow directed throughout the system as appropriate to the patient status while providing increased patient comfort. The current chemical casualty bag provides neither medical staff access to the patient or biohazard protection. The CCS design was refined via a Design Integrated Process Team (IPT) of Defense and CBIAC personnel.

Biocidal protection is achieved through the use of Triosyn® resin, a special polymer that employs iodine to destroy microorganisms. In previous testing, Triosyn® has proven effective against selected BW agent simulants and BW agents. Triosyn® was developed and manufactured by Triosyn® Corporation and was laminated into a permeable cloth by GENTEX Corporation.

This battlefield evacuation system features stays to hold the enclosure away from the patient, windows to view the patient, glove ports for medical interventions, oxygen and IV ports, a full-length zipper for patient insertion and extraction, and an equipment pass through. This system includes carrying handles and attaches to all existing litter systems. The core material is permeable and protects against chemical and biological warfare agents. The Triosin® layer protects medical personnel and patients from biohazards, and the chemical protective layer protects patients from a chemical agent threat.

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